

22231

S/093/61/000/002/002/003
A051/A129

The motion of a real liquid ...

α , L , where ΔP is the pressure difference between the two cross-sections investigated, in kg/cm^2 , θ the liquid density in $\text{kg sec}^2/\text{cm}^4$, ν the coefficient of kinematic viscosity in cm^2/sec , α the angle of taper in radians, L the length of the cone in cm. Considering that all the main acting factors are taken into account the connection equation in non-dimensional values is expressed as:

$$F\left(\frac{4Q}{\sqrt{2gH}d^2}\right); \frac{\sqrt{2gH}d}{\nu}; \alpha; \frac{d}{L} = 0. \quad (2)$$

The combination $\frac{\sqrt{2gH}d}{\nu}$ suggested by Al'tshul' is the Reynolds number. Solving equation (2) with respect to the discharge coefficient μ , the authors derive:

$$\mu = \frac{4Q}{\sqrt{2gH}d^2} = f(R, \alpha, \frac{d}{L}) \quad (3)$$

which shows that μ is really a function of R , angle of taper and ratio $\frac{d}{L}$, as stated above. It is further shown that a connection exists between μ and the resistance coefficient (Euler's parameter E): $\mu = \frac{1}{\sqrt{E}}$ (4);

where $E = \frac{2gH}{v^2}$, v being the average velocity in a narrow cross-section. μ characterizes the resistance of the opening to the motion of the liquid depending on R . μ can be determined experimentally only. Fig. 1 is a diagram of the experimental set-up to determine the functional relationship of equation (3).

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The motion of a real liquid ...

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The apparatus consists of a tank 1 creating pressure along 10 m. The liquid from tank 1 enters the measuring capacity 7 passing through the pipeline 2, through the nozzle 6. The liquid discharge was regulated by tap 4. The pressure change during the motion of the viscous liquid in the conical tubes was measured in cross-sections A and B, using a sensitive two-liquid manometer 9. Fig. 2 is a graph showing the characteristic features of the motion of the viscous liquid in the conical tubes. In the interval $3 \cdot 10^3 < R < 2 \cdot 10^5$ the function μ hardly depends on R. In the interval $10 \leq R < 3 \cdot 10^3$ μ does not depend on the angle of taper at all. At $10 \leq R < 300$ the liquid flow in the conical nozzles is laminated, but no strictly linear law of this flow is observed, just as in the cylindrical tubes. A comparison of the data obtained by the authors with those of Al'tshul (Refs. 4, 9) and theoretical calculations made by Wuest (Ref. 10) showed that no linear relationship of the type $\mu = AR$ (5) results from equation (3) in the same interval ($10 \leq R < 300$) of R. Results obtained from calculations made with equation (5) by other authors did not correspond to the experimental data obtained in this work. This discrepancy is explained by the fact that a conical tube of varying cross-sections shows much greater resistances to the liquid flow than round apertures in a thin wall do. A transfer from the laminar to the turbulent movement is noted at the critical value of R: $R_k = 300 \div 330$. In the interval

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The motion of a real liquid ...

$3 \cdot 10^3 < R < 10^5$ the liquid motion is turbulent and hardly depends on R . With a further increase in the R number μ decreases to 0.92 and then sharply increases, reaching a maximum $\mu = 0.99$ at $R = 4.5 \cdot 10^5$ (Refs. 5, 8). Further the value of μ decreases again (Ref. 6). An example is given of the calculations for determining the discharge of petroleum products and water at a pressure $H = 5$ m through a conical nozzle with an aperture diameter in the narrow cross-section $d = 10$ mm. The example showed that conical nozzles may be used successfully as a discharge-meter for measuring high-viscous liquids, if the pressure drop on the nozzle and the temperature of the liquid in the given cross-section are known. There is 1 diagram, 1 graph, 1 table and 10 references: 9 Soviet-block, and 1 non-Soviet-block. ✓

Card 4/9 ✓

S/152/61/000/003/002/003
B129/B201

AUTHORS: Asaturyan, A. Sh., Tonkoshkurov, B. A., Chernikin, V. I.

TITLE: Interaction of a thermal and of a hydrodynamic field in a flow with variable viscosity

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 3, 1961, 67-73

TEXT: The interaction of a thermal and a hydrodynamic field in a laminar, longitudinal viscous flow around a body is as yet insufficiently studied both theoretically and experimentally. Solutions by extensive calculations of nonlinear integral equations are not in good agreement with experimental values. For a better explanation of the physical picture of the interaction of fields, the authors solved by approximation the equations of the thermal boundary layer on a plane plate, around which there is a longitudinal viscous flow, whose physical parameters are functions of temperature. A theoretical study was made of the relations between the velocities along the x and y axes, the temperature, the Reynolds and Prandtl numbers, the kinematic viscosity of the liquid, the heat exchange, the heat conduction

Card 1/2

Interaction of ...

S/152/61/000/003/002/003
B129/B201

coefficient of the liquid. The result obtained is that the heat exchange depends on the direction of the thermal current, and that the heat exchange in the cooling process is markedly distinguished from the heat exchange in the heating process. Experimental evidence is given of the fact that the heat exchange has the same character both in a flow around a plate and a cylinder. The theoretical solution is shown to be in satisfactory agreement with experimental results. There are 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc.

ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akad. I. M. Gubkina i NIITransneft'
(Moscow Institute of Petroleum-chemical and Gas Industry imeni Academician I. M. Gubkin and NIITransneft')

SUBMITTED: November 19, 1960

Card 2/2

ASATURYAN, A.Sh.; SVIRIDOV, V.P.; BOLDOV, N.G.

An analogy of internal and external problems of hydrodynamics. Trudy
NII Transneft' no.1:83-91 '61. (MIRA 16:5)
(Petroleum pipelines—Fluid dynamics)

ASATURYAN, A.Sh.; CHERNIKIN, V.I.

Unsteady gas flow in pipelines. Trudy NIITransneft' no.1:92-109
'61. (MIRA 16:5)

(Gas flow)

ASATURYAN, A.Sh.; PETROVA, L.N.

Strained condition of a pipeline under an asymmetrical load. Izv.
vys. i inzh. nauk. 4 no.7:95-101 '61. (MIRA 14:10)

1. Zaporozhskiy mashinostroitel'nyy institut i NIIttransneft'.
(Petroleum--Pipelines) (Strains and stresses)

ASATURYAN, A.Sh.; PETROVA, L.N.

Strained conditions of a pipeline in nonsymmetrical loading. Trudy
NII Transneft' no.1:268-275 '61. (MIRA 16:5)
(Pipelines) (Strains and stresses)

ASATURIAN, A.Sh.; TONKOSHKUROV, B.A.; CHERNIKIN, V.I.

Characteristics of the heat exchange and hydrodynamics of a flow
of fluid with varying viscosity. Trudy NII Transneft' no. 1:3-21
'61. (MIRA 16:5)
(Heat--Transmission) (Laminar flow)

L 16729-63
WW

EPR/EPF(c)/EWT(1)/EPF(n)-2/EDS AFFTC/ASD/SSD Ps-4/Pr-4/Pu-4
S/124/63/000/004/016/064

AUTHOR: Tonkoshkurov, B. A., and Asaturyan, A. Sh. 7/

TITLE: On question of application of L. S. Leybenzon's integral relationship
in heat exchange 2/

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1963, 79, abstract 4B534
(Tr. N.-i. in-t po transp. i khraneniyu nefi i nefteproduktov, no. 1,
1961, 22-28)

TEXT: Using the method of integral relationships, the authors compute the heat transfer parameter for two problems: the forced convection of an incompressible liquid near a flat plate, and natural convection at a vertical plate. In the solution, the integral Karman relationship is replaced by Lebenson's. The solutions derived are similar to those obtained through use of Karman's relationship. R. Kopyatkev'ch.

[Abstracter's note: Complete translation.]

Card 1/1

ASATURYAN, A.Sh.; TONKOSHKUROV, B.A.; CHERNIKIN, V.I.

Interaction of heat and hydrodynamic fields in a flow having
varying viscosity. Izv. vys. ucheb. zav.; nef't' i gaz 4
no.3:67-73 '61. (MIRA 16:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akademika I.M.Gubkina i Nauchno-issledovatel'skiy institut po
transportu i khreneniyu nef'ti i nefteproduktov.

ASATURYAN, A.Sh.; SVIRIDOV, V.P.; BOLDOV, N.G.

Flow of imperfect liquids in conical pipes and nozzles. Neft.
khoz. 39 no.2:60-64 F '61. (MIRA 17:2)

ASATURYAN, A.Sh.: CHERNIKIN, V.I. (Zaporozhye)

"The movement of immiscible liquids of different viscosity in
cylindrical pipes"

report presented at the 2nd All-Union Congress on Theoretical and Applied
Mechanics, Moscow, 29 January - 5 February 1964

ASATURYAN, A.Sh.; KICHAYEV, P.M.

Flexural vibrations of rods in nonlinear elasticity theory. Izv.
AN Arm. SSR. Ser. fiz.-mat. nauk 15 no.5:27-39 '62. (MIRA 15:11)

1. Zaporozhskiy mashinostroitel'nyy institut imeni V.Ya.Chubarya.
(Elastic rods and wires)

ASATURYAN, A.Sh.; GALIULLIN, Z.T.; CHERNIKIN, V.I.

Nonsteady flow of dropping liquid in cylindrical pipes.
Izv.vys.ucheb.zav.; neft' i gaz 5 no.2:87-93 '62. (MIRA 15:7)

1. Zaporozhskiy mashinostroitel'nyy institut i Moskovskiy
institut neftekhimicheskoy i gazovoy promyshlennosti imeni
akademika I.M. Gubkina.
(Pipelines--Hydrodynamics)

L 16395-65 EWT(m)/EWP(w)/EWA(d) ESD(t)/ESD(gs)/ASD(f)-2 EN

ACCESSION NR: AP4049197

S/0022/64/017/005/0017/0026 17

AUTHORS: Asaturyan, A. Sh.; Kichayev, Yu. P.

TITLE: Torsional oscillations of rods of variable cross sections with nonlinear law of elasticity 26

SOURCE: AN ArmSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, v. 17, no. 5, 1964, 17-26

TOPIC TAGS: torsional oscillation, elasticity, nonlinearity, stress calculation

ABSTRACT: The torsional oscillations of various bodies of revolutions with variable cross section and nonlinear elasticity were determined under various boundary conditions by the Hamilton variational principle. A final formula is given for the oscillations and the coefficients contained in the formula are tabulated for conical, cylindrical shafts, and also for shafts with side surface in the form

Card 1/2

L 16395-65

ACCESSION NR: AP4049197

of a paraboloid of revolution. Orig. art. has: 1 table, 5 figures,
and 29 formulas.

ASSOCIATION: Zaporozhskiy mashinostroitel'nyy institut im. V. Ya.
Chubara (Zaporozh'ye Machine Building Institute)

SUBMITTED: 26Nov63

ENCL: 00

SUB CODE: ME, AS

NR REF SOV: 002

OTHER: 001

Card 2/2

ASATURYAN, A.Sh., kand. tekhn. nauk, dotsent; OL'YAK, V.D., kand. tekhn. nauk, dotsent

Electric modeling of gas-dynamic phenomena in the inlet and exhaust systems of a two-cycle engine. Izv. vys. ucheb. zav.; mashinostr. no.5:117-122 '65.

(MIRA 18:11)

ASATURYAN, A.Sh.; GERASIMOV, Yu.A.; CHERNIKIN, V.I.

Efficient hydraulic transport of viscous and highly-viscous
petroleums. Izv. vys. ucheb. zav.; neft' i gaz 8 no.4:83-
87 '65.

(MIRA 18:5)

1. Zaporozhskiy mashinostroitel'nyy institut im. V.Ya.Chubarya
i Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im.akad. I.M.Gubkina.

L 1415-66 EWT(1)/EPA(s)-2/EWA(h)

ACCESSION NR: AP5016311

UR/0144/65/000/005/0501/0509
621.319.52

AUTHOR: Kuchin, V. D. (Candidate of technical sciences, Docent, Head of physics department); Asaturyan, A. Sh. (Candidate of technical sciences, Docent); Volkov, R.A. (Candidate of physico-mathematical sciences, Docent)

TITLE: Space charge in the field of the h-v inductor of electrostatic generators

SOURCE: IVUZ. Elektromekhanika, no. 5, 1965, 501-509

TOPIC TAGS: electrostatic generator 25

ABSTRACT: From a theoretical analysis of the field strength at a point in the inductor interelectrode gap, these conclusions are drawn: (1) The field strength falls off rapidly toward the gap depth; (2) The space charge is located in a very small part of the gap, next to the corona-displaying points; throughout the rest of the gap, the field strength is insufficient to form the space charge; (3) Although a

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L 1415-66

ACCESSION NR: AP5016311

denser arrangement of the points diminishes the space-charge effect and steps up the ionization current, it also results in an undesirable increase in the critical voltage. A perfect h-v inductor would have fairly long and very thin points (which would impair its mechanical strength and shorten its life). It is suggested that h-v inductors be abandoned and radioactive sources (such as Ra^{226} or Po^{210} , or for weak ionizations a beta-source) be used instead. The radioactive inductor would: (a) be many times smaller in size, (b) have better mechanical characteristics, and (c) have a minimal or nil space charge. Orig. art. has: 5 figures and 24 formulas.

ASSOCIATION: Zaporozhskiy mashinostroitel'nyy institut (Zaporozh'ye Machine-Building Institute)

SUBMITTED: 05Feb64

ENCL: 00

SUB CODE: EM

NO REF SOV: 002

OTHER: 000

Card 2/2

DP

GIL'DIN, R.M.; MAVRINA, Z.G., dotsent; ASATURYAN, D.G.

Treatment of acute thyroiditis and strumitis with adrenocortico-
tropin and roentgen rays. Terap.arkh. 32 no.9:70-76 '60.

(MIRA 14:1)

1. Iz 2-y kafedry terapii (zav. - dotsent G.R. Britanishskiy)
Instituta usovershenstvovaniya vrachey imeni S.M. Kirova.
(THYROID GLAND--DISEASES) (ACTH) (X RAYS--THERAPEUTIC USE)

~~ASATURYAN, S., mekhanik (g. Riga).~~

Device for assembling the type of typewriters. Prom.koop.
no.6:10 Je '57. (MLRA 10:7)

1. Artel' "Darbs."

(Typewriters)

ASATURIYAN, T.B.

Radionavigatsiia. Porokho dlia pilotov, portradiistov i shтурманов. Pod obshch.
red. P. . Shebanova. Moskva, Red. -- izd. otch. Aeroflota, 1944. 140 p.,
illus., diagrs.

Title tr.: radio navigation. A guide to pilots, radio operators and navigators.

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

ASATUR'YAN, T.B.,

DAVYDKIN, B.I., I.IA. KOZLOV, and T.B. ASATUR'YAN

Aeronavigatsiia i aviatsionnye pribory. Moskva, 1947.

Title tr.: Aerial navigation and aircraft instruments.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

ABALYAN, N.; ASATURYAN, V.; BALAYAN, A.; OVCHIYAN, V.

A map of corrosiveness and its use in planning protective
measures for underground metal constructions. Prom.Arm.
4 no.10:56-59 0 '61. (MIRA 14:11)

1. Armnikhimproekt.
(Corrosion and anti-corrosives)

ASAT'YAN, A.A.

A.P. Fedchenko's Journey in Turkestan. Izv.Uz.fil.Geog.ob-va
1:163-173 '55. (MLRA 10:3)
(Fedchenko, Aleksei Pavlovich, 1844-1873)
(Asia, Central--Description and travel)

ASATYAN, A.D.

SUBJECT	USSR /PHYSICS	CARD I/ 2	PA - I530
Author	Author not mentioned.		
Title	The Scientific All Union Session (held in connection with "Broadcasting Day").		
PERIODICAL	Radiotekhnika, II, fasc. 9, 74-79 (1956)		
	Issued: 19.IO.1956		

Z.S. Cernov delivered a report concerning the results obtained on the occasion of the investigation of spiratrons, which are new tube-type devices with propagating waves and electrostatic focussing of electron currents.

E.D. NAUMENKO spoke about the results obtained by the working out of laboratory models of reflecting klystrons for measuring purposes.

V.A. KLJAZKIN discussed the compensation method of coping with impulse disturbances in a wireless set. He also described ways and means for the practically complete elimination of impulse disturbance by compensation methods.

B.I. RASSADIN pointed out the experimentally confirmed advantages of a signal transmission in a frequency band in four-channel systems in radio telephone- and telegraph communication. He recommended a method by means of which nonlinear distortion can be considerably diminished.

A.P. ANGAFOROV demonstrated two basic principles of construction as well as the

construction of television tubes for the production of a direct representation of the image: A three-ray tube with a darkening mask and a mosaic-pattern

Radiotekhnika, II, fasc. 9, 74-79 (1956) Card 2 / 2 Pa- I530
Luminescent screen (of the Kolotron type) and a one-ray tube with a control net and a striped luminescent screen (of the Chromatron type).

A.D. ASATIAN described the characteristic of tube types such as are used in Western Europe and the USA for broadcasting- and television sets, and he gave a survey of the new Sovietic "finger-tubes" for television- and radio sets.

A.K. BEKTABEGOV reported on the new piezoceramic pickup which offers a number of advantages.

A.G. MURADIAN analyzed the working of amplifiers in semiconductor devices with series- and parallel back-coupling.

B.A. KRASJUK described the experimental examination of the modification of the magnetic properties of alloys of the "Permallej" type under the influence of gamma rays.

INSTITUTION:

ASAUL, Z.I.

Study of colorless euglenoid algae in the Ukrainian S.S.R.
Ukr. bot. zhur. 17 no.6:90-93 '60. (MIRA 14:3)

1. Institut botaniki AN USSR, otdel sporovykh rasteniy.
(Shatsk District (Volyn' Province))—Algae

ASAUL, Z.I.

Euglenidae of ephemeral basins of the West Ukrainian Polesye.
Ukr. bot. zhur. 18 no.5:74-82 '61. (MIRA 17:2)

1. Institut botaniki AN UkrSSR, otdel sporovykh rasteniy.

ASAUL, Z.I.

Study on seasonal dynamics of the development of Euglenophyta in
ponds of the West Ukrainian Poley. Ukr.bot.zhur. 18 no.6:56-62
'61. (MIRA 15:3)

1. Institut botaniki AN USSR, otdel sporovykh rasteniy.
(Polesye---Algae)

ASAUL, Z.I.

Euglenophyta in lakes of the West Ukrainian Polesye. Ukr.bot.zhur.
19 no.1:52-57 '62. (MIRA 15:4)

1. Institut botaniki AN USSR, Otdel sporovykh rasteniy.
(Polesye--Algae)

ASAUL, Z.I.

Euglenoids of some bogs of the West Ukrainian Polesye. Ukr.
bot. zhur. 19 no.2:49-53 '62. (MIRA 15:6)

1. Institut botaniki AN USSR, otdel sporovykh rasteniy.
(Polesye---Euglenophyta)

ASAUL, Z.I.

Euglenoids of the West Ukrainian Polesye. Ukr. bot. zhur. 19 no.3:
108-114 '62. (MIRA 15:7)

1. Institut botaniki AN USSR, otdel sporovykh rasteniy.
(Polesye—Euglenophyta)

ASAUL, Z.I.

Euglenophyta in the ponds of West Ukrainian Polesye. Ukr. bot.
zhur. 20 no.2:67-72 '63. (MIRA 16:6)

1. Institut botaniki AN UkrSSR, otdel sporovykh rasteniy.
(Polesye—Euglenophyta)

ASAUL, Z.I.

Forms of colorless Euglenophyta, new and interesting for the
algal flora of the Ukraine. Ukr. bot. zhur. 21 no.1:78-88
'64.
(MIRA 17:3)

I. Institut botaniki AN UkrSSR, otdel sporovykh rasteniy.

BERENSHTEYN, A.F.; ASAUL, Z.I.

Utilization of the wastes of fermentation industries in the
cultivation of algae. Spirt.prom. 29 no.4:26-27 '63. (MIRA 16:5)

1. Institut botaniki AN UkrSSR.
(Distilling industries---By-products) (Algae)

ASAUL, Z.I.

Euglenidae of some rivers of the forest-steppe part of the
Ukraine. Ukr. bot. zhur. 21 no. 2:104-108 '64. (MIRA 17:5)

1. Institut botaniki AN UkrSSR, otdel nizshikh rasteniy.

ASACI, Z.I.

Study of Euglenophyta of the steppe rivers of the Ukraine.

Ukr. bot. zhur. 21 no.6:76-80 '64.

(MIRA 18:2)

1. Laboratoriya al'gologii Instituta botaniki AN UkrSSR.

BERENSHTEYN, A.F.; ASAUL, Z.N.

Culture of chlorella on the wastes of distilleries. Ferm. 1
spirt.prom. 30 no.4:35-36 '64. (MIRA 18:12)

1. Institut botaniki AN UkrSSR.

ASAULENKO, A.

More aviation groups, circles and brigades in primary organizations of the All-Union Volunteer Society for Assistance to the Army, Air Force, and Navy. Kryn. rod. 2 no.10:5-6 0 '51. (MLRA 8:8)

1. Chlen Orgkomiteta Dobrovol'nogo obshchestva sodeystviya aviatsii SSSR.
(Aeronautics--Study and teaching)

ASAULENKO, G.V.[Asaulenko, H.V.], kombayner

Device for controlling pickup feeders in SKM-3 combines. Mekh.
sil'. hosp. 9 no. 8:14- Ag '58. (MIRA 11:8)

1. Kolgosp "Ukraina," Mashivs'kogo rayonu, Poltava'koi oblasti.
(Harvesting machinery)

SILIN, N.A.; KOBERNIK, S. G.; ASAULENKO, I.A.

Investigation of the operation of the 1000-80 hydraulic pipe-line
dredge and the 900 millimeter diameter spoil pipe. Izv. Inst.
gidrol. i gidr. AN URSS no.14:54-65 '56. (MLRA 9:12)

(Dredging machinery)

SOV/21-58-2-14/28

AUTHORS: Silin, N.A., Kobernik, S.G. and Asaulenko, I.A.

TITLE: Head Losses During the Motion of Water and ~~Water~~-Solid Mixture in Large Diameter Conduits (Poteri napora pri dvizhenii vody i vodogruntovoy smesi v truboprovodakh bol'shikh diametrov)

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1958, Nr 2, pp 175-177 (USSR)

ABSTRACT: The authors present the results of investigations conducted from 1954 to 1956 to determine head losses in large-diameter conduits. The investigations were carried out on pressure conduits of the earth suction dredges, which delivered water-solid mixture into the earth dams of the Kakhovka and Kremenchug Hydroelectric Power Plants. The pipes were of the following diameters: 900, 800 and 614 mm. The authors present numerical data in tabulated form and in graphical form as curves expressing the values of head losses plotted versus the velocity, the diameters of the conduits and the specific weight of the water-solid mixture. There are 4

Card 1/2

SOV/21-58-2-14/28
Head Losses During the Motion of Water and Water-Solid Mixture in Large
Diameter Conduits

graphs, 1 table and 5 Soviet references.

ASSOCIATION: Institut gidrologii i gidrotekhniki AN UkrSSR (Institute of
Hydrology and Hydraulic Engineering of the AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, G.I. Sukhomel

SUBMITTED: May 16, 1957

NOTE: Russian title and Russian names of individuals and insti-
tutions appearing in this article have been used in the
transliteration

Card 2/2

ASAULENKO, I. A., Cand Tech Sci -- (diss) "Hydraulic resistances in the motion of water and water-soil mixtures through pipelines of large diameter." Kiev, 1960. 19 pp with graphs; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Ukrainian Inst of Water Transport Engineers); 200 copies; price not given; (KL, 26-60, 134)

ASAULENKO, I.A.

Hydraulic resistances during the flow of the water-soil mixture
in large-diameter pipes. Visti Inst. gidrol. i gidr. AN URSR
17:112-118 '60. - (MIRA 14:8)
(Pipe—Hydrodynamics)

KOROBov, M.M.; NIKOLAYCHUK, I.M.; KONDAKOV, V.N.; ASAULENKO, I.A.

Study of the hydraulic transportation of barley. Izv.vys.ucheb.say.;
pishch.tekh. no.4:99-106 '60. (MIRA 13:11)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti.
Kafedra tekhnologii brodil'nykh proizvodstv.
(Barley--Pipelines) (Hydraulics)

KOROBov, M. M.; Prinimali uchastiye: NIKOLAYCHUK, I. M.; KONDAKOV, V. N.;
ASAULENKO, I. A.

Hydraulic conveying of distiller's grain in breweries. Spirt.
prom. 28 no.8:18-19 '62. (MIRA 16:1)

1. Kiyevskiy tekhnologicheskoy institut pishchevoy promyshlen-
nosti im. Mikoyana.

(Hydraulic conveying) (Breweries)

L 20463-66 EWT(1)/FCC/EWA(h) GW

ACC NR: AP6012056

SOURCE CODE: UR/0203/65/005/0809/0816

AUTHOR: Asaulenko, L. G.; Dorman, L. I.; Smirnov, V. S.; Tyasto, M. I. 44
15

ORG: Polar Geophysical Institute, Kola Branch, AN SSSR (Polyarnyy geofizicheskyy institut Kol'skogo filiala AN SSSR)

TITLE: Effect of limitation of the geomagnetic field on cosmic rays

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 5, 1965, 809-816

TOPIC TAGS: geomagnetic field, cosmic ray, solar wind, magnetic storm

ABSTRACT: The earth's magnetic field, at least in the direction of the sun, is limited and its extent is dependent on the density and energy of particles in the solar wind. This article discusses the effect of compression of the magnetosphere caused by the solar wind on the cutoff rigidities and asymptotic directions of cosmic rays. Limitation of the magnetosphere influences cosmic rays not only in the period of the initial phase of a magnetic storm, but also when the magnetic field is quiet. It is demonstrated that the compression leads to intensification of the influence of the magnetic field on cosmic rays and that the joint effect of limitation of the magnetosphere and the westerly current system leads to attenuation of the influence of external sources both on cutoff rigidity and on asymptotic directions. The authors thank the workers of the Computer Center, Kola Branch, AN SSSR for programming the problems and calculations on the electronic computer. Orig. art. has: 3 figures, 9 formulas, and 3 tables.

JPRS
SUB CODE: 08, 03, 04 / SUBM DATE: 14Sep64 / ORIG REF: 004 / OTH REF: 013
Card 1/1 KK

ASAULYAK, Ya.I.

Successes of fruit growers on the "Leont'ev" State Farm. Zashch.
rast. ot vred. i bol. 8 no.5:8-9 My '63. (MIRA 16:9)

1. Starshiy inspektor po zashchite rasteniy Kaushanskogo
proizvodstvennogo upravleniya.

(Moldavia--Fruit culture)

(Moldavia--Spraying and dusting in agriculture)

L 49423-65 EWT(1)/EWG(v)/FCC/EGG-1/IEG(t)/EWA(h) Pe-5/P1-4/Pe-2/Pq-4/Pae-2/

Feb GW

ACCESSION NR: AP5010276

UR/0203/65/005/002/0322/0327

AUTHOR: Asaulenko, L. G.; Pudovkin, M. I.

TITLE: Current system of an elementary geomagnetic disturbance in the auroral zone

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 2, 1965, 322-327

TOPIC TAGS: electric current, ionosphere, earth magnetism, earth current

ABSTRACT: Elaborating on the work of R. D. Cole (Australian Journal of Physics, v. 13, no. 3, 484-497) and N. Fukushima (J. Fac. Sci., Tokyo Univ. II, 1967, 1971), the authors compute the magnitude of electric currents in the auroral zone.

1. 01.00-4.5

AMERICAN NBI: A1501000

earlier investigations. It is seen that in the case of high conductivity

As a result of the investigation, it is concluded that the results of the investigation

CONSIDERED: 01.00-4.5

EN 1.00-4.5

1. 01.00-4.5

NO REF SOV: 000

OTHER: 004

ATTN: PRESENT: 1.00-4.5

Card 2/2

ASAULYUK, I. K., (Captain of the Medical Service) and KHALMYANSKIY, B. L.,
(Major of the Medical Service)

"Comprehensive Treatment of Patients with Lumbosacral Radiculitis in a
Kamchatka Sanatorium"

Voyenno-Meditsinskiv Zhurnal, No. 12, December 1961, pp 62-73

KHOLMYANSKIY, B. L., mayor meditsinskoy sluzhby; ASAULYUK, I. K.,
kapitan meditsinskoy sluzhby

Compound treatment of lumbosacral radiculitis at the Kamohatka
Sanatorium. Voen.-med. zhur. no.12:71 D '61.

(MIRA 15:7)

(NERVES, SPINAL--DISEASES)

ASAULYUK, I.K.; KHOLMYANSKIY, B.L.

Treatment of skin diseases at the hot springs of Kamchatka.
Vest.derm. i ven. no.9:55-58'62. (MIRA 16:7)

1. Iz sanatoriya "Paratunka" (nachal'nik S.L.Nasekin)
(SKIN—DISEASES)
(KAMCHATKA—HEALTH RESORTS, WATERING PLACES, ETC.)

ASAULYUK, I.K.

Immediate results of compound therapy of gynecological patients
in the "Paratunka" sanatorium in Kamchatka. Akush. i gin. 39
no.4:115-116 J1-Ag'63 (MIRA 16:12)

ASADYUK, I.K.

Effectiveness of the compound treatment of intercurrent pneumonia
at "Paratunka" Sanatorium. Vop. kur., fizioter. i lech. fiz.
kul't 30 no.5:460-461 S.-O 1968.

(MIRA 1968)

3. Sanatoriy "Paratunka" (nachal'nik S.D. Nosovskiy).

ASAULYUK, Z.; KLOCHKO, I., kand.sel'skokhoz.nauk

Simmenthal cattle on the Trostyanets' State Farm. Nauka i zhittia
11 no.10:29-30 0 '61. (MIRA 15:1)

1. Direktor plemzavodu "Trostyanets'" (for Asulyuk).
(Ukraine--Simmenthal cattle)

ASAVINEI, I.

Surface temperature measurement by thermocouples. Metrologia apl 10
no.2:73-77 F '63.

ISPASOIU, G.; ASAVINEI, I.

Reproduction and transfer of temperature unit by optic monochromatic
pyrometer with loss of filament. Metrologia apl 10 no.4:150-159
Ap '63.

PATRASCU, St., fiz.; TOFAN, I., ing.; ASAVINEI, I.

Experimental method for determining the coefficients of spectral and total emission. Metrologia apl 11 no.9:410-414 S '64.

ISPASOIU, G., fiz.; PATRASCU, St., fiz.; ASAVINEI, I.

Reproduction and transmission of the temperature unit by
the PtRh-Pt thermocouple. Metrologia apl 11 no.12:535-
540 D '64.

CHERKASHIN, M.I.; ASAYEV, Yu.G.

Polymerization of phenylacetylene on CuO. Izv. AN SSSR. Ser. khim.
no. 2: 388-389 F '64. (MIRA 17:3)

1. Institut khimicheskoy fiziki AN SSSR.

ACC NR: AP7002823

(N)

SOURCE CODE: UR/0410/66/000/005/0081/0085

AUTHOR: Asayevich, G. A. (L'vov)

ORG: none

TITLE: Protection of electron-counting frequency meters against noise

SOURCE: Avtometriya, no. 5, 1966, 81-85

TOPIC TAGS: signal noise separation, frequency meter, noise modulation

ABSTRACT: When automatic, low-frequency-meters are used there is the problem of protection against high-frequency noise entering the instrument input together with the signal to be measured, especially if the working frequency range reaches 1 MHz or more. The present article examines several methods of providing reliable frequency meter operation when there is high-frequency noise. It is expedient to evaluate instrument noiseproofness by the degree of tolerable noise voltage in an absolute or a relative expression (in millivolts or percentage of useful signal level, respectively). Some methods of noise protection are: proper choice of shaper hysteresis voltage, expanding frequency range by using a tunnel diode in the shaper, and connecting a low-frequency filter (e.g., RC) at instrument input. Schematics are given to illustrate each of these methods, of which the third seems to be the simplest. A table based on automatic cutting in of such a filter indicates that the tolerable noise level at which the instrument still gives correct readings does not depend on signal strength;

Card 1/2

UDC: 681.2.088

ACC NR: AP7002823

because of the nonuniformity of the frequency characteristic of the channel this value fluctuates in a ± 2 db range. Noise protection effectiveness is great, especially in the high-frequency interference region when the tolerable noise level exceeds the useful signal voltage. Orig. art. has: 4 formulas, 1 table, and 4 figures.

SUB CODE: 09, 17/ SUBM DATE: 09Feb66/ ORIG REF: 002

Card 2/2

ASBEL, M.I., KAGANOV, N.I., LIF SHITS, I.M.

"On the Theory of Galvanomagnetic Phenomena" (Khar'kov)

Conference on Physics of Magnetic Phenomena,
May 1956, Sverdlovsk, USSR

RUMANIA / Pharmacology and Toxicology. Chemotherapeutic
Agents. Antibiotics.

V-9

Abs Jour : Ref Zhur - Biol., No 16, 1958, No 75913

Author : Asbel, S. I.; Sokolova, V. G.; Haritonov, V. V.

Inst : Not given

Title : On the Effectiveness of Blomycin Treatment in Patients with
Chronic Suppurative Diseases of the Lungs.

Orig Pub : An. Rom. - Sov. Ser. med. gen., 1957, 11, No. 5-6; 71-75;
Perev.-Klinich. meditsina, 1957, No. 5.

Abstract : No abstract given.

Card 1/1

FISBERGER, S.

Distr: 4E2c

✓ Kinetics and mechanism of the decomposition of complex cyanides of iron(II) and molybdenum(IV).¹ S. ASBUTCE, I. Murati, and D. Pavlovic (Univ. Zagreb, Yugoslavia). J. Chem. Soc. 1960, 730-4. — The photodecompn. of $\text{Fe}(\text{CN})_6^{4-}$ to $\text{Fe}(\text{CN})_5\text{H}_2\text{O}^{3-}$ and the analogous reaction involving release of a CN group from $\text{Mo}(\text{CN})_6^{4-}$ are both reversible in darkness. The energy of activation of the decompn. of $\text{Fe}(\text{CN})_5\text{H}_2\text{O}^{3-}$ in the dark at elevated temp. amounts to 28.2 kcal./mole and is higher by 8.4 kcal./mole than that of $\text{Fe}(\text{CN})_6^{4-}$. The rate of formation of Fe^{++} from $\text{Fe}(\text{CN})_5\text{H}_2\text{O}^{3-}$ in the dark at elevated temp. is about $1/100$ the rate of decompn. of the $\text{Fe}(\text{CN})_5\text{H}_2\text{O}^{3-}$ under the same conditions. This suggests the presence of an intermediate complex cyanide of Fe^{++} . In ultraviolet light the rates differ only by a factor of 2 because the proposed complex is unstable in this light. Sidney Arden

1 6
1-7/10 (id)

8
7/16/61

ASBIREKIV, V. Ye.

Nucleon charge and mass renormalization in the vacuum corrections theory for meson-nucleon processes. Soob. AN Gruz. SSR 16 no. 1: 27-34 '55. (MLRA 8:12)

1. Tbilisskiy gosudarstvennyy universitet imeni Stalina. Predstavleno chlenom-korrespondentom Akademii V. I. Mamasakhlisovym (Mesons) (Nucleons)

LORAND, S.; ASBOT, J.

Uterine contraction reflex induced by stimulation of nipple. *Magy. noorv. lap.* 16 no. 1-2:26-31 Jan 1953. (CJML 24:1)

1. Doctors. 2. Obstetric Department, Head Physician -- Prof. Dr. Sandor Lorand), Arpad Metropolitan General Hospital.

ASBOT, J., NYITRAY, GY.

"Appreciation of the work of the committees set up for the operative interruption of pregnancy." p. 82 (NEPEGESZSEGUGY, Vol. 34, no. 3, Mar. 1953, Budapest.)

SO: Monthly List of East European Accessions, Vol. 2 #8, Library of Congress, Aug. 1953, Uncl.

ASBOT, Janos, dr

The problem of uterine rupture in modern obstetrics. Orv.
hetil. 101 no.19:659-663 8 My '60.

1. Fovarosí Arpad Kórház, Szülészeti és Nőgyógyászati osztály.
(UTERUS wds & inj.)

ZEMPLÉNYI, Tibor; SZÖKE, Sandor; technical munkatarsak: ASBOTH, Karolyne;
LORINCZ, Klara; PALOS, Istvan

The effect of copper on the vitamin C metabolism of rats and guinea
pigs. Kiserl. orvostud. 14 no.6:581-586 D '62.

1. Orszagos Elelmezes- es Taplalkozastudomanyi Intezet.
(ASCORBIC ACID) (COPPER) (LIVER) (ADRENAL GLANDS)

ASBOTH, Laszlo

A captive of violin making. Magy kisipar 6 no.4:2 22 P '62.

ASBOTH, Laszlo

An interview with a knitter-artisan. Magyar kisipar 6 no.18:4
6 S '62.

ASBOTH, Laselo

From arrival to departure; the Svarvas branch of the National
Organization of Craftsmen affords "home" for industrial apprentices
coming from distant regions. Magy kisipar 6 no.5:1 8 Mr '62.

ASBOTH, Laszlo

You will show it. Magy kisipar 6 no.20:1-2 4 0 '62.

ASBOTH, Laszlo

It is discussed also at the meetings of local council members.
Magy kisipar 6 no.25:3 13 D '62.

ASBOTH, Laszlo.....

In lieu of a greeting card from Leipzig. Magy kisipar 7 no.6:
1-2 21 Mr '63.

ASBOTH, Laszlo

Past and present. Magy kisipar 7 no.7:1 4 Ap '63.

AS BOTH 1.

10. Testing the resistance

ASBOTH, 1.

for several days, then their moisture content was simultaneously determined by conditioning and by the modified Marcusson apparatus. The results proved the

COUNTRY	:	Hungary	H-34
CATEGORY	:		
ABS. JOUR.	:	AZKhimi, No. 21 1959, No.	77051
AUTHOR	:	Asboth, T. and Mihalik, B.	
INST.	:	Not given	
TITLE	:	The Steaming of Wool Yarn	
ORIG. PUB.	:	Magyar Textiltechn, 10, No 4-5, 149-154 (1958)	
ABSTRACT	:	An investigation of the effect of steaming (S) of wool yarn at temperatures of 100-130° on the properties of the yarn has shown that the S should be carried out at temperatures of 100-110° with contact times of under 30 min. At temperatures above 110° the S produces a noticeable degradation of the wool, as indicated by a marked increase in the acid and base solubility of the corresponding samples. The mechanical properties of the yarn are practically unchanged even after	
CARD:		1/2	

ASBOTH, T.; MIHALIK, B.

Fixing of wool by heat and wet treatment. p. 473.

HUNGARIAN TEXTILTECHNIKA. (Textilipari Műszaki és Tudományos Egyesület)
Budapest, Hungary. Vol. 11, no. 12, Dec. 1959.

Monthly List of East European Accessions. (EEAI) LC Vol. 9, no. 2,
Feb. 1960 Uncl.

DISCHKA, Gyozo, dr., a muszaki ~~diplom~~manyok doktora; ASBOTH, Tibornei
BECK, Tamas; MARTHA, Endre; RESETERITS, Jozsef, mernok

Remarks delivered at the conference on the interactions of
instrumental and organoleptic textile test and the trend
of their development. Magy textil 15 no.3:134-135 Mr '63.

ASBOTH, Tibor; JANCOSK, Ferenc; SEREGI, Ferenc

Expressing the interoperational time through the regressive analysis of the correlation between the interoperational time and certain factors of technological specifications. Gepgyartastechn 4 no. 3:109-116 Mr '64.

1. Department of Industrial Economics, Budapest University of Technical Sciences (for Jancsok).

ASBOTH, Tibor, okleveles kozgazdasz

Economics and standardization. Szabvany kozl 16 no.5:
83-84 My'64.

1. Hungarian Bureau of Standards, Budapest.

ASBOTH, Tibor, okleveles kozgazdasz

Relationship between the Renard series and standardization.
Szabvany kozl 16 no. 6:107-108 Je '64.

1. Hungarian Bureau of Standards, Budapest.

ASBOTH, Tibor, okleveles közgazdász

Analysis of the economical aspects of standardization in the
instrument industry. Szabványi közl 16 no.7:126-127 J1 '64.

1. Hungarian Bureau of Standards, Budapest.

ASBOTH, Tibor, okleveles kozgazdasz

Effect of standard modifications and the permission of deviations
from official standards on the price level. Szabvany kozl 16
no. 8:146-147 Ag '64.

1. Hungarian Bureau of Standards, Budapest.

1964, "The, ..."

"Effect of the price on the spread of ...". Contrary
Karl to no. 10177-0-164.

1. Hungarian Bureau of Monarchy, Budapest.

ASBOTH, Tibor, okleveles kozgazdassz

Cost analysis of a foreign standardization case. Szabvany kozl 17
no.2:88-89 F '65.

1. Hungarian Bureau of Standards, Budapest.

ASBOTH, Tibor, okleveles koagazdasz

Standardization and quality guarantee. Szabványi közl 17 no.3:
137-139 Mr '65.

1. Hungarian Bureau of Standards, Budapest.

Asbukina, Z.M.

Category : USSR / Plant Diseases. Diseases of Cultivated Plants N-3

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22948

Author : Vasil'eva, L.N., Asbukina, Z.M.

Title : Yellow rust (*Puccinia glumarum* Erikss. et Henn.) in the Primorskiy Kray.

Orig Pub : Soobshch. Dal'nevost. fil. AN SSSR, 1955, No 8, 80-82

Abstract : The development of yellow rust *P. glumarum* Erikss. et Henn, in many spots of the Primorskiy Kray occurred in 1950 and 1954 due to chilly and humid weather. In 1954 for the first time the development of "teleyto" pustules was observed; earlier the existence of yellow rust was noted only in the uredostage. The following plants were affected by the disease: *Triticum vulgare*, *T. compactum*, *T. turgidum*, *Hordeum vulgare*, *H. distichum*, *H. hexastichum*, *H. jubatum*, *Elymus sibiricus*, *Roegneria trachycaulon*, *Agropyrum repens* and *Secale cereale* (summer).

Card : 1/1

ASCHEENDORF, A., GRECU, T.

Locomotives with gas turbines. p. 268

REVISTA CAILOR FERATE. (Cailor Ferate Romine) Bucuresti, Rumania. Vol. 7, No. 7,
July 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960
Uncl.

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R/009/60/000/010/008/009
A125/A126

18 4000

AUTHORS:

Vezeanu, Petre, and Aschendorf, Alphonse, Engineers

TITLE:

Some applications of radioactive isotopes in the metallurgical industry

PERIODICAL: Metalurgia și Construcția de Mașini, no. 10, 1960, 914 - 917

TEXT: The authors review several possibilities of using radioactive isotopes in various metallurgical processes. To check the wear of blast furnace linings, radioactive sources, generally Co^{60} are placed into the lining, the radiations being recorded by a counter located outside of the furnace. The value of the source's activity is determined by calculating the attenuation of the radiation in the refractory brick, steel shell and other structural material. The measuring speed for a source of Δ activity is determined by:

$$n = \frac{\Delta \cdot e^{-\sum \mu_i x_i} \cdot A \cdot \sum f_i}{4\pi R^2}$$

in which A is the area of the counter, ϵ_y - the efficiency of the counter

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